



Instruction manual ■ ■ ■



9040

9040_s

9040_{IP65}

9040_{Contrast}

Safety instructions



Printer and interface overview



Start / Stop the printer



Select a message



Print a message



Modify a message



Printhead maintenance



Consumables



Troubleshooting
Information



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A **DOVER** Company

Safety instructions

DECLARATION DE CONFORMITE CE EC DECLARATION OF CONFORMITY	
MARKEM-IMAJE SAS 9 Rue Gaspard Monge, BP 110 26501 Bourg Les Valence Cedex, France certifie que l'équipement neuf, désigné ci-dessous : MARKEM-IMAJE SAS 9 Rue Gaspard Monge, BP 110 26501 Bourg Les Valence Cedex, France certifies that the new equipment referenced below :	
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est conforme aux directives européennes applicables aux imprimantes, soit : is in accordance with applicable to equipment: • à la directive machines 98/37/CE et aux normes européennes qui en constituent la réponse technique, • with the machinery CE and with standards, • à la directive compatibilité électromagnétique 2004/108/CE et aux normes européennes qui en constituent la réponse technique, • with the electromagnetic compatibility directive relevant • à la directive basse tension 2006/95/CE et aux normes européennes qui en constituent la réponse technique. En conséquence, le matériel ci-dessus cité, peut porter le marquage CE. Bourg-les-Valence, le 14 janvier 2009 Dominique CHANUT Responsable Normalisation/homologation Regulatory Compliance Manager 	
 markem-imaje Markem-Imaje SAS 9, rue Gaspard Monge – BP 110 – 26501 Bourg-les-Valence Cedex France Tel. : +33 (0)4 75 75 55 00 – Fax : +33 (0)4 75 82 98 10 – www.markem-imaje.com	



Instruction manual



Safety instructions

Before using this printer, please read and fully comply with these instructions, the material safety data sheet (MSDS) for consumables used, and safety labels affixed to the printer. Servicing must be performed only by qualified people who are appropriately trained.

■ Liability

Markem-Imaje shall not be liable for any damage or injury resulting from any failure to follow these safety instructions, as well as good manufacturing practices and safety standards that are generally applicable in the industry, when installing, using or servicing Markem-Imaje equipment.

Any user who modifies or repairs Markem-Imaje equipment, uses consumables, spare parts or accessories other than those supplied by Markem-Imaje, or fails to comply with Markem-Imaje specifications shall have sole responsibility for the consequences thereof.

Markem-Imaje shall not be liable for any malfunction or damage caused by any modification of the equipment or use of the equipment for any purposes other than those for which it is designed. The user shall be solely responsible to take any precautions required by any use to which the user puts the Markem-Imaje equipment.





Safety instructions

Markem-Imaje consumables (inks, cleaning products and other consumables), spare parts and accessories are designed for use with Markem-Imaje equipment. Use of consumables, spare parts or accessories, that are not produced or recommended by Markem-Imaje for use with the specific Markem-Imaje equipment may harm the equipment and cause performance failures.

Because Markem-Imaje equipment is tested with Markem-Imaje consumables and spare parts for conformity with certain regulations and safety standards, use of non-Markem-Imaje consumables and spare parts also may be inconsistent with testing conditions and affect compliance of the equipment with certain standards. The user shall bear all risks associated with use of unsuitable consumables and spare parts.

This equipment is certified in accordance with the requirements for CE marking.





Safety instructions

■ Health / Hygiene / Environment



For certain consumables:

- ☐ Wearing contact lenses when handling these consumables is strictly prohibited.
- ☐ Ink-resistant gloves and safety goggles are recommended during filling and cleaning operations.

Max. noise level < 70 dB A.

Operating temperature : +5°C to +45°C (+41°F to +113°F)

Humidity: 0 - 90% RH with no condensation. The use of certain inks may limit the temperature and humidity ranges (see the ink specification sheet).

The printer must not be used in explosive atmospheres.

■ Fire prevention

CAUTION: For continued protection against possible fire, use only the ink/solvent mixtures specified by Markem-Imaje.

If your printer uses flammable ink or make-up:

- ☐ Never leave containers containing ink, make-up or cleaning products, or ink-soaked rags (even dry) near the printer.
- ☐ Install a foam, CO2 or powder extinguisher immediately adjacent to the printer (maximum 10 meters).
- ☐ Never smoke near the printer. Affix a sign «NO SMOKING, FLAMMABLE INK» near the printer.
- ☐ Ensure that the printer is kept particularly clean, as dried ink deposits remain highly flammable.
- ☐ Drums of ink, make-up and cleaning solution must be closed and stored in a ventilated room.

■ Handling

When the printer contains consumables, it should not be tilted and should only be moved vertically.

Totally drain the printer before moving it to a non-vertical position.

Printer weight: 43 kg (94.8 lbs)





Safety instructions

■ Installation

The printer must be attached to the floor using the designated mechanism provided (4 bolts, minimum diameter 6.mm, with washers, class 5.6 minimum, minimum pull-out resistance 300 daN). If it is not possible to attach the printer to the floor, the Markem-Imaje stability kit must be installed on the printer. The print heads must be attached using appropriate mounting devices to ensure that they are perfectly stable.

The printer must be installed in a ventilated location, away from any source of heat, flames or sparks.

The printer installation on the production line must not generate any risks for staff. The operator's work station faces the printer.

The printer must be connected to a single phase mains electricity network with earth ground, using the cable supplied with the printer. The standard plug on this cable must be easily accessible.

The electrical and pneumatic installations upline of the printer must comply with applicable regulations. Printer electrical characteristics: see manufacturer's plate on the printer, adjacent to the power socket.

When the printer or a part thereof is attached to a stand, the stand must be connected to earth ground.

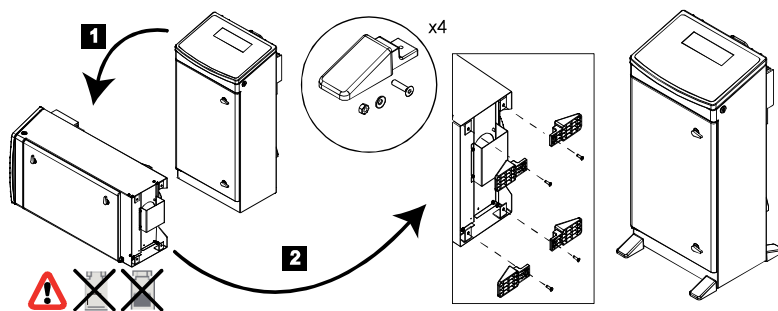
Earth ground all conducting parts not at a voltage reference and which are related to or close to the printer (metal frames, protective guards, etc.).

For information on fastening a Markem-Imaje accessory, refer to the assembly instructions delivered with it.

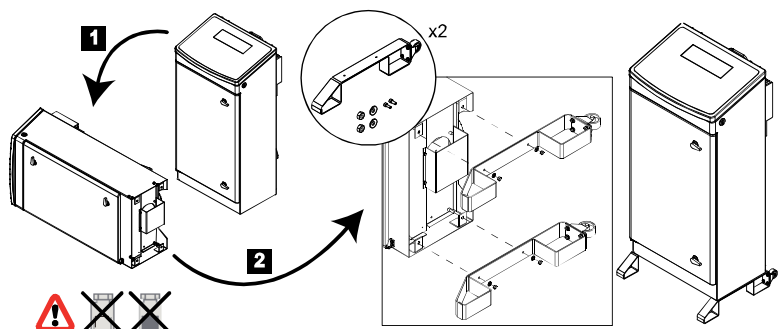




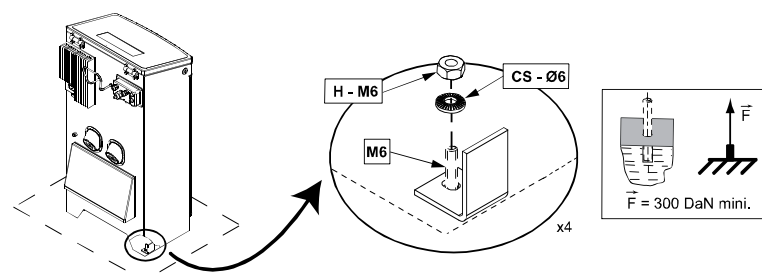
Safety instructions



Ou / Or



Ou / Or





Safety instructions

■ Use

The printer is designed for contact-free printing by projecting ink. Any other use of the printer is prohibited, and any consequences shall be under the entire responsibility of the user.

■ Servicing

Disconnect the printer from the mains before any operations requiring components to be removed or exchanged.

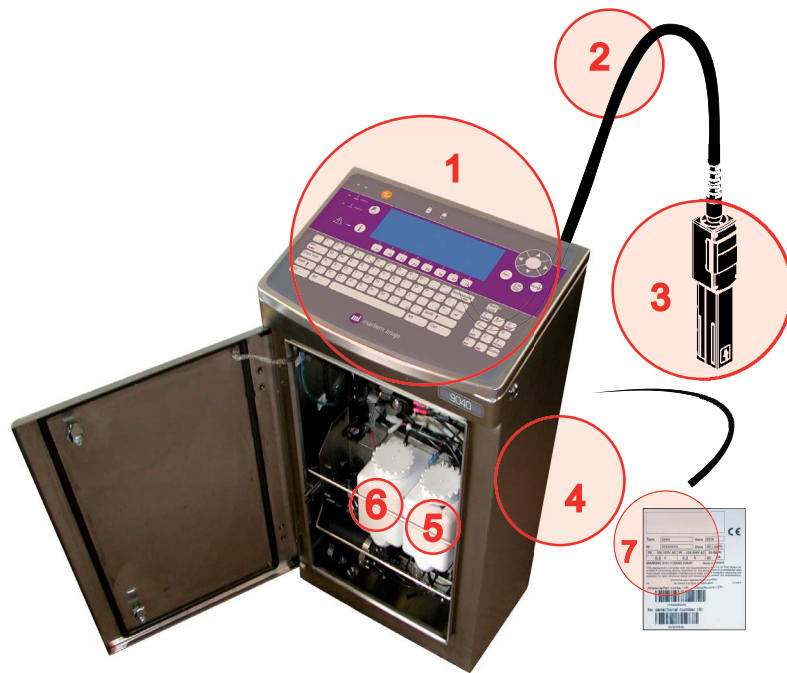
Use appropriate tools for any work on the electrical and hydraulic circuits.

After each maintenance operation, the waste receptacles used should be emptied and cleaned. Do not leave rags soaked with consumables near the printer.

This unit contains a non-replaceable internal lithium ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.



Printer overview



1 Operator interface

2 Conduit

3 Print head

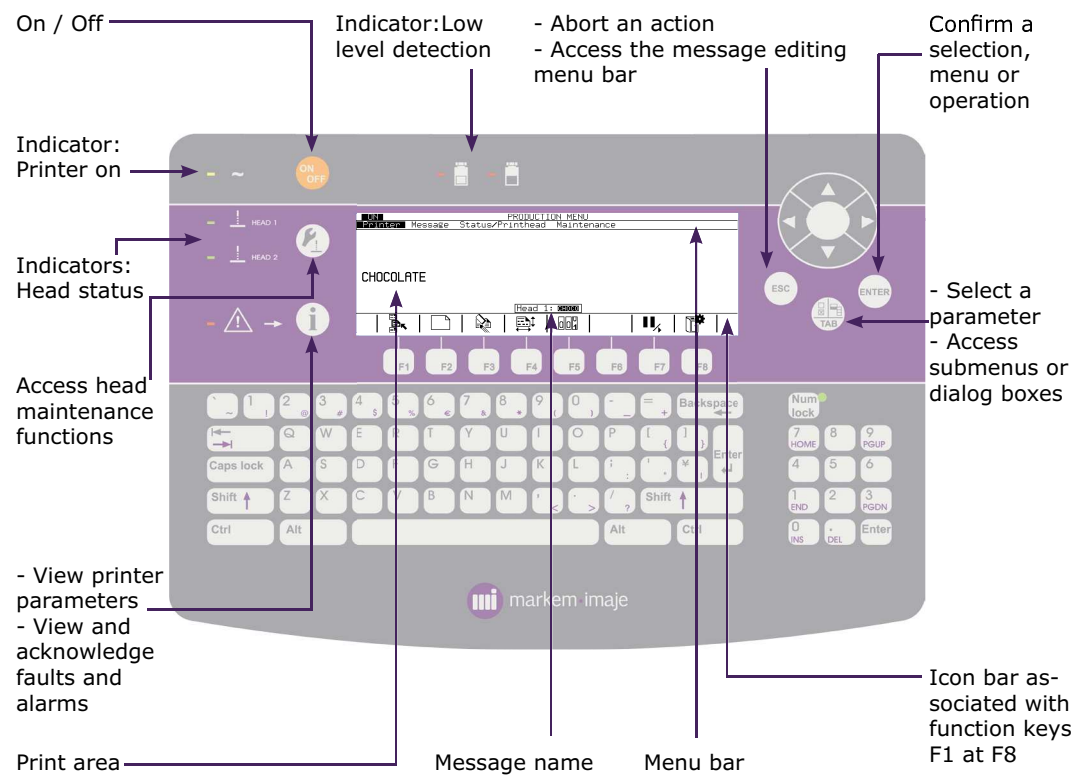
4 Cabinet

5 Ink

6 Additive

7 Manufacturer's plate







Description of icons

-  Select and send a message in production
-  Create a message
-  Edit the message in production or another message
-  Access the printing parameters of the message in production or another message
-  View and reset the counters of the message in production
-  Stop the printing
-  Restart the printing
-  Access to other menus
-  Open message
-  Access fonts
-  Access composition box for variable directly after cursor
-  Access parameters for variable directly after cursor
-  Transfer message to production
-  Save message
-  Return to Production menu
-  Access to Message Editing/Message submenu
-  Access to Message Editing/Font submenu
-  Access to Message Editing/Variables submenu
-  Access to Message Editing/Parameters submenu
-  Access to Printer preparation menu
-  Access to Symbol Editing menu



Presentation of the menus

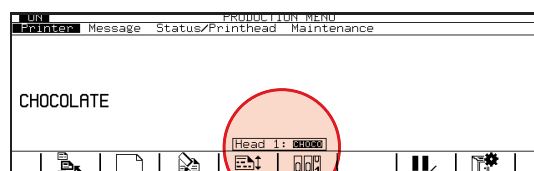
 PRODUCTION			
Printer	Message	Status/Printhead	Maintenance
Start-up Shut-down Jet(s) start-up Jet(s) stop Start Mode	Message selection  Library creation Counter display/reset 	Status jet(s) Motor speed * FAULTS ...	Clear faults ELV status modification Flushing SAV
 MESSAGE EDITING			
Message	Font	Variables	Parameters
New OpenSave Save as Delete Load printer Close	 select Font Select Symbols Bolderization Tabulation Barcodes	 Counter Counter 2 Time Postdate Postdate 2 Autodating table Shift code External	 Message Counter Counter 2 Postdate Postdate 2 Shift code Barcodes
 PRINTER PREPARATION			
Initialization	Parameters	Options	Access codes
Language Printer Autoclock Jet alignment RS232 Connection PCMCIA transfer Font(s) downloading	Message Counter Counter 2 Postdate Postdate 2 Shift code Autodating table Barcodes Select font	Versions Hour counter Machine options	Keyboard Security
 SYMBOL EDITING			
Symbol	Size		
News Open Save Save as Delete Close	Symbol size		

* depending on printer's configuration

Start the printer



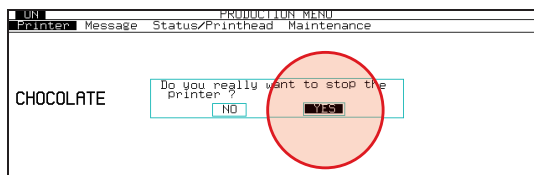
≈ 2 min.30



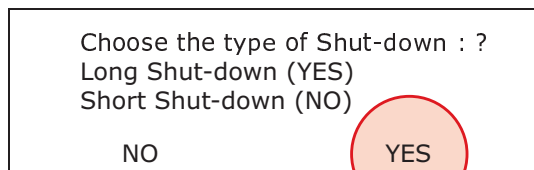
Stop the printer



ON OFF



ENTER

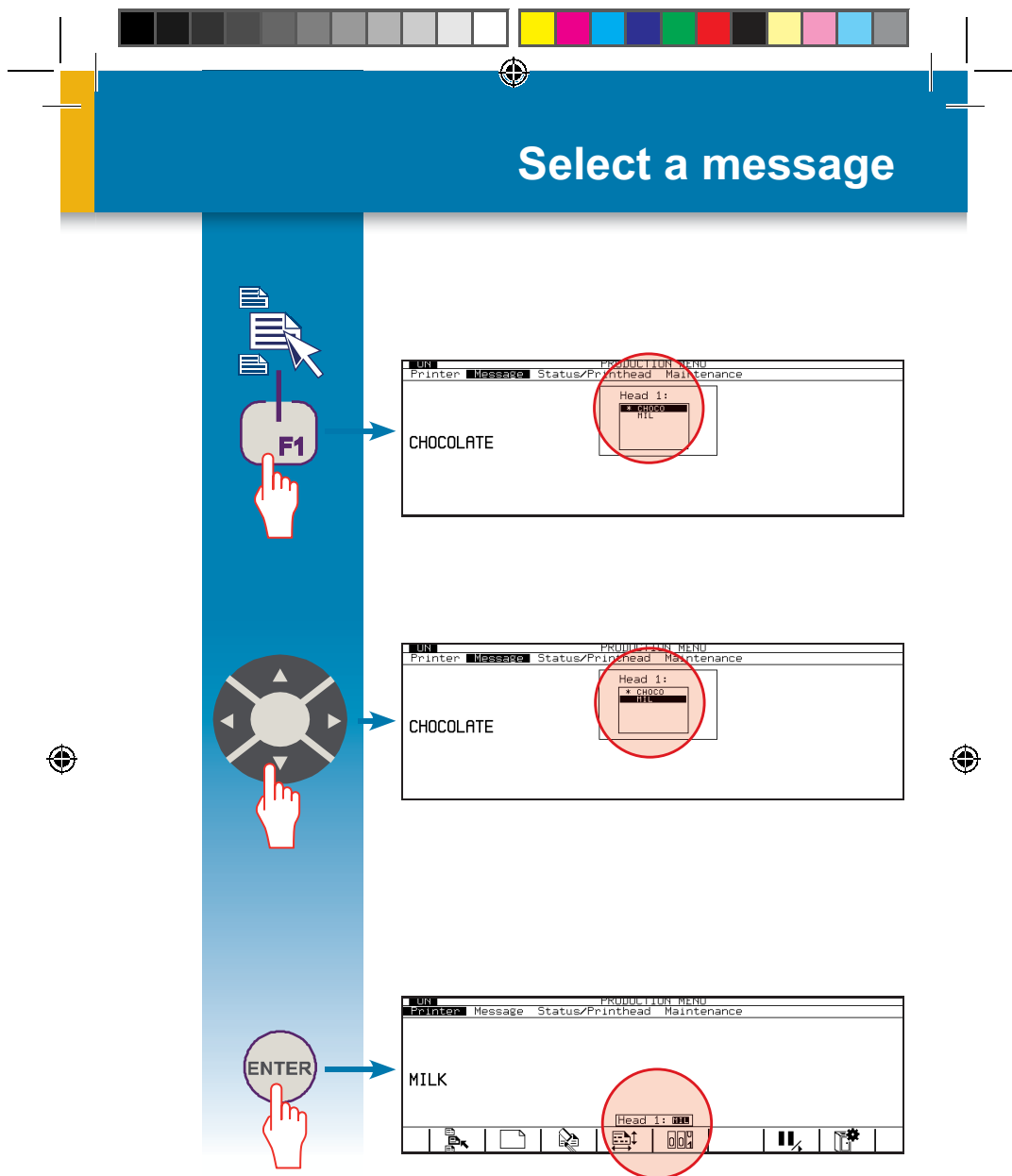


ENTER



≈ 6 min



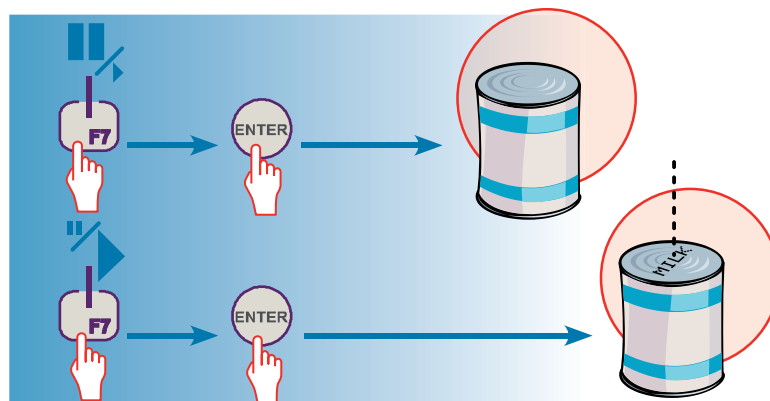
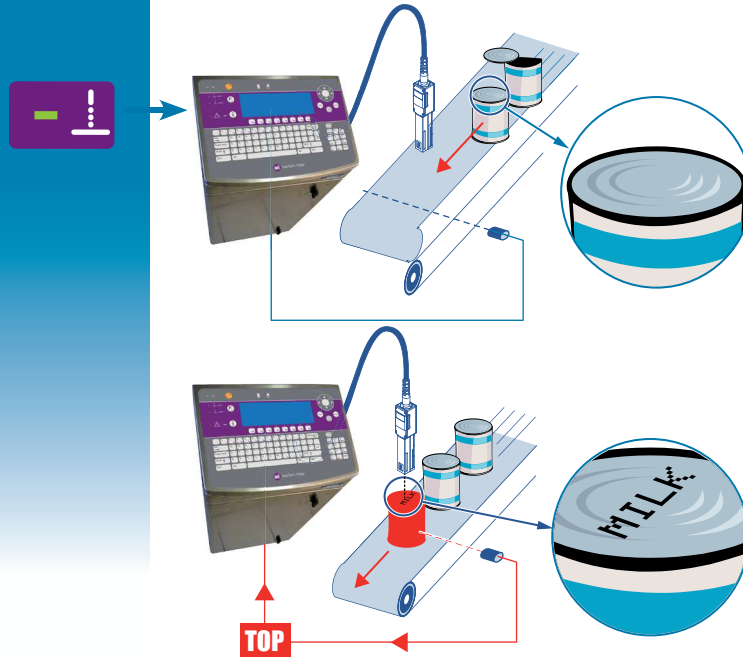


The message "MIL" is ready to be printed.

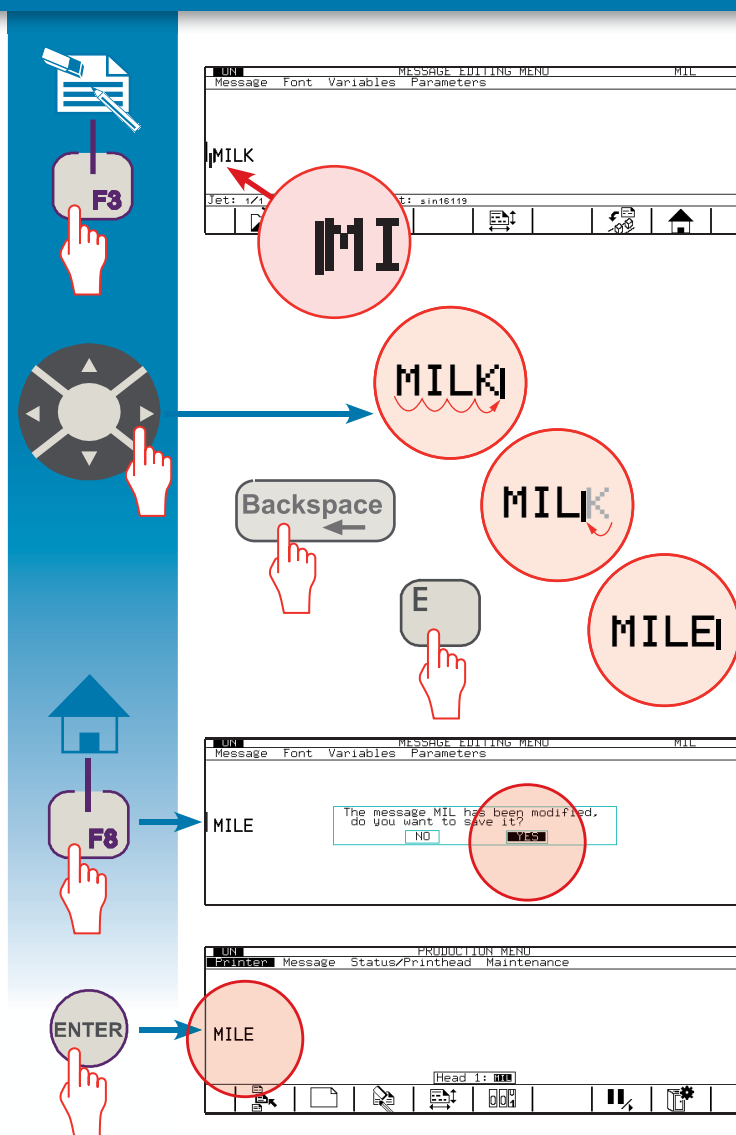


Print a message

The message "MIL" is ready to be printed.



Modify a message

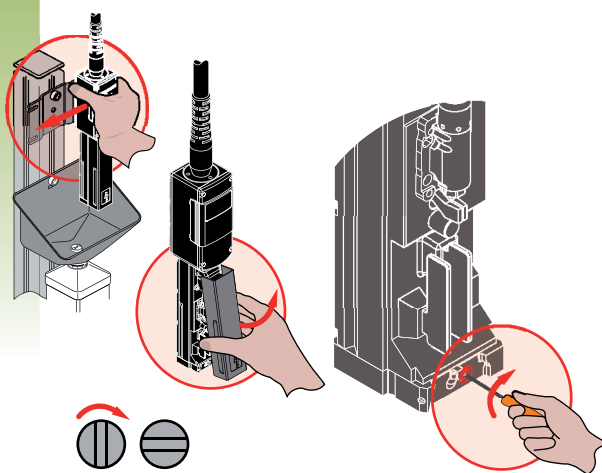


Printhead maintenance: advised every 7 days

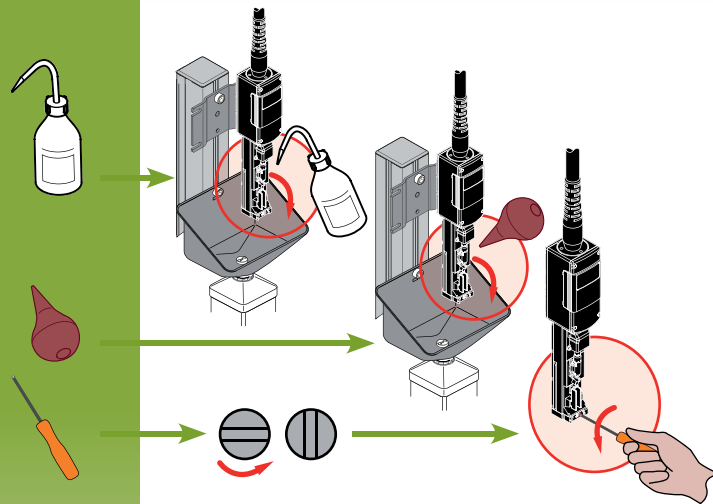


Head:	1
Status Jet(s):	RUNNING
Speed Jet1:	20.00 m/s
Phase Jet1:	000011111
Pressure:	2.09 bars
Viscosity:	29 s / 4.1 cPs
Elect. Temp:	30 °C
Ink Temperature:	37 °C
Motor speed:	1560 t/min
Reference visco.:	29 s / 4.1 cPs
Additions:	04
FAULTS:	0

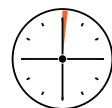
Head:	1
Status Jet(s):	RUNNING
Speed Jet1:	20.00 m/s
Phase Jet1:	000011111
Pressure:	2.09 bars
Viscosity:	29 s / 4.1 cPs
Elect. Temp:	30 °C
Ink Temperature:	37 °C
Motor speed:	1560 t/min
Reference visco.:	29 s / 4.1 cPs
Additions:	04
FAULTS:	0



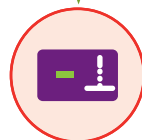
Printhead maintenance



Head:	1
Status Jet(s):	RUNNING
Speed Jet1:	JET SHUT DOWN
Phase Jet1:	NOZZLE UNBLOCKING
	REFRESHMENT
	STABILITY
	INTRO. SOLUTION
	NOZZLE UNBLOCKING
	JET BOOSTMENT
Pressure:	2,89 bars
Viscosity:	28 s / 4,1 cPs
Elect. Temp:	30 °C
Ink Temperature:	37 °C
Motor speed:	[1560] t/min
Reference visco.:	29 s / 4,1 cPs
Additions:	04
FAULTS:	00



≈ 1 min.

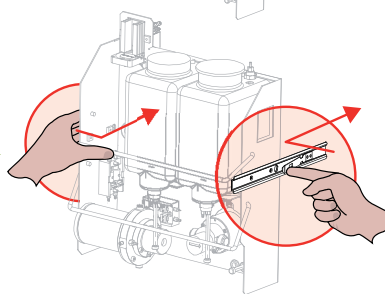
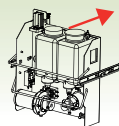
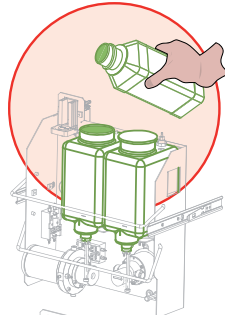




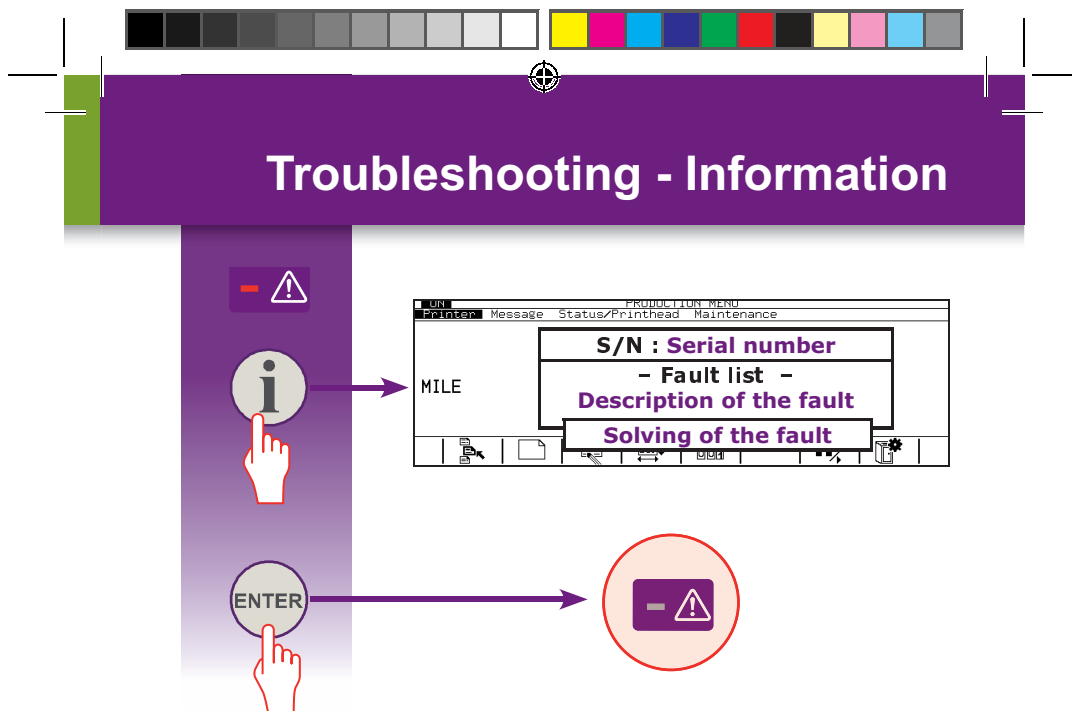
Consumables

Indicator : Low Level Detection

Additive   Ink



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S/N :Serial number : _____



additive : _____



ink : _____



For Marking & Coding Equipment.
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the team to trust ■ ■ ■



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